

Paragraph [0198] of the specification replaces all prior versions of this paragraph in the application:

AMENDMENTS TO THE SPECIFICATION

[0198] The magazine picker 880 comprises a support structure 884 for supporting a magazine during transport of the magazine towards and away from a storage location in the library 202. The support structure comprises: (a) a base plate 886 on which a magazine, such as the LTO/SAIT magazine 270 from FIG. 12A, can substantially rest under the influence of gravity; (b) four brackets 888A-888D mounted to the base plate 886; (c) a pair of rail mounting plates 890A, 890B, with the rail mounting plate 890A supported by the brackets 888A, 888B and the rail mounting plate 890B supported by the brackets 888C, 888D; (d) a pair of rails 892A, 892B, with the rail 892A being attached to the rail mounting bracket 890A, and the rail 892B attached to the rail mounting bracket 890B. Each of the rails 892A, 892B comprises two grooves 894A, 894B, one for accommodating rail 292A of a magazine and one for accommodating rail 292B of a magazine. In library 202, the shelf system 208 is configured so that all of the magazines stored in the library have the same orientation. Consequently, only one of the grooves 894A, 894B associated with each of the 892A, 892B is utilized. For example, groove 894A of rail 892A may be used to accommodate rail 292A of a magazine, and groove 894B of the rail 892A would not be utilized. Continuing with the example, groove 894B of rail 892B would accommodate rail 292B of a magazine, and groove 894A of the rail 892B would not be utilized. The rail mounting plates 890A, 890B and the rails 892A, 892B form a guide during movements of a magazine to and from a storage location and a support for a magazine during transport of a magazine and during movements of a magazine to and from a storage location. Receptacles 896A, 896B are respectively associated with the rail mounting plates 890A, 890B and engage the detents 296A, 296B located on the bottom side 278 of a magazine to inhibit undesired movement of a magazine, especially during transportation of a magazine from one storage location to another storage location.

This listing of claims replaces all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

1. (Currently Amended) A magazine-based data cartridge library comprising: a frame; a shelf system, operatively attached to said frame, for supporting at least two data cartridge magazines and comprising at least one shelf; a drive that is operatively attached to said frame; a cartridge transport device, operatively attached to said frame, for moving a data cartridge between one of said at least two data cartridge magazines and said drive; a magazine picker for displacing one of said at least two data cartridge magazines towards and away from said shelf; and an elevator for moving said magazine picker; wherein said magazine picker comprises: a magazine support generally comprising a base plate on which said magazine can substantially rest under the influence of gravity; and means for transporting one of said at least two data cartridge magazines between said magazine support and said at least one shelf; wherein during transporting of one of said at least two data cartridge magazines between said magazine support and said at least one shelf, said magazine support remains in substantially the same position.
2. (Original) A magazine-based data cartridge library, as claimed in claim 1, wherein: said cartridge transport device comprises said elevator.
3. (Previously presented) A magazine-based data cartridge library, as claimed in claim 1, further comprising: an entry/exit port for conveying one of said at least two data cartridge magazines between an environment that is exterior to a space defined by said frame and an entry/exit space that is interior to said space defined by said frame; wherein said entry/exit space is accessible to said magazine transport device.
4. (Previously presented) A magazine-based data cartridge library, as claimed in claim 1, wherein: said magazine support comprises a pair of support rails for engaging one of said at least two data cartridge magazines.

5. (Original) A magazine-based data cartridge library, as claimed in claim 4, wherein: said means for transporting is located in a space between said pair of support rails.

6. (Original) A magazine-based data cartridge library, as claimed in claim 4, wherein: said pair of support rails are adapted to engage a pair of data cartridge magazine rails.

7. (Previously presented) A magazine-based data cartridge library, as claimed in claim 1, wherein: said means for transporting comprises: means for engaging one of said at least two data cartridge magazines; and means for moving said means for engaging.

8. (Previously presented) A magazine-based data cartridge library, as claimed in claim 7, wherein: said means for engaging comprises: a member with a surface for contacting one of said at least two data cartridge magazines; an actuator for selectively providing a motive force for moving said member so that said surface moves into and out of position to contact one of said at least two data cartridge magazines; and a linkage that constrains said member to rotate about an axis.

9. (Original) A magazine-based data cartridge library, as claimed in claim 8, wherein: said actuator comprises a rotational actuator that provides a rotational motive force.

10. (Original) A magazine-based data cartridge library, as claimed in claim 9, wherein: said rotational actuator comprises an electric motor.

11. (Previously presented) A magazine-based data cartridge library, as claimed in claim 7, wherein: said means for engaging comprises: a member with a first surface for contacting one of said at least two data cartridge magazines and a second surface for contacting one of said at least two data cartridge magazines that is separated from said first surface; an actuator for selectively providing a motive force for moving said member so that said first and second surfaces move into and out of position to contact a one of said at least two data cartridge magazines; and a linkage that constrains said member to rotate about an axis.

12. (Original) A magazine-based data cartridge library, as claimed in claim 11, wherein: said member extends from a first terminal end to a second terminal end; said axis is located between said first and second terminal ends; and said first and second surfaces are located between said axis and said first terminal end.

13. (Original) A magazine-based data cartridge library, as claimed in claim 11, wherein: said member extends from a first terminal end to a second terminal end; said axis is located between said first and second terminal ends; said first surface is located between said axis and said first terminal end; and said second surface is located between said axis and said second terminal end.

14. (Previously presented) A magazine-based data cartridge library, as claimed in claim 13, wherein: said first surface comprises a third surface for contacting one of said at least two data cartridge magazines and a fourth surface for contacting one of said at least two data cartridge magazines that is separate from said third surface.

15. (Previously presented) A magazine-based data cartridge library, as claimed in claim 14, wherein: said second surface comprises a fifth surface for contacting one of said at least two data cartridge magazines and a sixth surface for contacting one of said at least two data cartridge magazines that is separate from said fifth surface.

16. (Original) A magazine-based data cartridge library, as claimed in claim 11, wherein: said actuator comprises a rotational actuator that provides a rotational motive force.

17. (Original) A magazine-based data cartridge library, as claimed in claim 16, wherein: said rotational actuator comprises an electric motor.

18. (Previously presented) A magazine-based data cartridge library, as claimed in claim 7, wherein: said means for engaging comprises: a member with a surface for contacting a data cartridge magazine; an actuator for selectively providing a motive force for moving said member so that said surface moves into and out of position to contact one of said at least two

data cartridge magazines; and a linkage that constrains said member to move linearly.

19. (Original) A magazine-based data cartridge library, as claimed in claim 18, wherein: said actuator comprises a linear actuator that provide a linear motive force.

20. (Original) A magazine-based data cartridge library, as claimed in claim 19, wherein: said linear actuator comprises a solenoid.

21. (Original) A magazine-based data cartridge library, as claimed in claim 7, wherein: said means for engaging comprises a belt; and said means for moving comprises an electric motor for rotating said belt.

22. (Previously presented) A magazine-based data cartridge library, as claimed in claim 21, wherein: said belt comprises a surface for engaging a surface of one of said at least two data cartridge magazines.

23. (Original) A magazine-based data cartridge library, as claimed in claim 7, wherein: said means for moving comprises an electrical motor.

24. (Original) A magazine-based data cartridge library, as claimed in claim 7, wherein: said means for moving comprises a solenoid.

25. (Original) A magazine-based data cartridge library, as claimed in claim 7, wherein: said means for moving comprises a lead screw.

26. (Original) A magazine-based data cartridge library, as claimed in claim 7, wherein: said means for moving comprises a belt-and-pulley system.

27. (Original) A magazine-based data cartridge library, as claimed in claim 7, wherein: said means for moving comprises means for linearly translating said means for engaging.

28. (Previously presented) A magazine-based data cartridge library, as claimed in claim 7, wherein: said means for transporting comprises means for sensing when said means for engaging has engaged one of said at least two data cartridge magazines.

29. (Original) A magazine-based data cartridge library, as claimed in claim 28, wherein: said means for sensing comprises an optical sensor.

30. (Original) A magazine-based data cartridge library, as claimed in claim 8, wherein: said means for engaging comprises a force limiter that is located between said actuator and said member.

31. (Original) A magazine-based data cartridge library, as claimed in claim 30, wherein: said force limiter comprises a spring.

32. (Original) A magazine-based data cartridge library, as claimed in claim 30, wherein: said force limiter comprises a first spring and a second spring.